

**METHODS AND COMPOSITIONS FOR  
TISSUE AUGMENTATION**

**ABSTRACT**

5           Methods and compositions for use in tissue volume  
replacement are provided. The present invention comprises  
compositions comprising a combination of materials, comprising  
preferably a solid polymer particle phase and a gel phase, and also  
comprises single phase compositions. More particularly, preferred  
10   embodiments comprise a solid polymer particle phase made of materials  
comprising Gore-Tex (micronized e-PTFE), PDS II (polydioxanone, a  
monofilament), NUROLON (a long chain aliphatic polymer Nylon 6 or  
Nylon 6,6) ETHILON (a long chain aliphatic polymer Nylon 6 and  
Nylon 6,6), PROLENE (Polypropylene, isotactic crystalline  
15   stereoisomer of polypropylene, a synthetic linear polyolefin.), VICRYL  
(copolymer made from 90% glycolide and 10% L-lactide), silk,  
MONACRYL (poly ε-caprolactone.), polylactide, polyglycolide, poly  
lactide-co-glycolide, and BIOPOL (polyhydroxyvalerate), MEDPOR  
(biocompatible (micronized) polyethylene), BIOGLASS (bioactive glass  
20   particulate), NOVABONE and NOVABONE-CM, and the gel phase  
comprises polyvinylpyrrolidone (PVP). Preferred single phase  
compositions comprise PVP. Methods of the present invention  
comprising injection of such compositions for tissue augmentation.

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